## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

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We Claim:

17. (Currently amended) A <u>water-dispersible</u> polyamide treatment agent for use with a textile article formed from a synthetic fiber substrate for providing improved moisture transport while at the same time imparting durability of the moisture transport, said polyamide treatment agent including:

a hydrophobic component;

a hydrophilic component; and

an effective amount of any of an oxyalkylene derivative, an ether linkage, and an oxyalkylene derivative and an ether linkage.

18. (Original) The polyamide treatment agent according to claim 17 wherein said effective amount of any of an oxyalkylene derivative, an ether linkage, and an oxyalkylene derivative and an ether linkage includes an effective amount of an hydrophilic oxyalkylene derivative.

19. (Original) The treated textile article according to Claim 18, wherein said hydrophilic oxyalkylene derivative is between about 40 and 80 weight percent of said polyamide treatment agent.

20. (Original) The treated textile article according to Claim 19, wherein said treated textile article has a Normalized Average Moisture Transport Durability (inch/inch) value of between about 0.1 and 1 when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.

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- 21. (Original) The treated textile article according to Claim 19, wherein said treated textile article has a ratio of (an Average Moisture Transport With Treatment and After Five Launderings)/(an Average Moisture Transport With Treatment and No Launderings) of between about 30 and 120 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 22. (Original) The treated textile article according to Claim 19, wherein said treated textile article has a ratio of (Average Moisture Transport With Treatment and No Launderings)/ (Average Moisture Transport With No Treatment and No Launderings) of between about 100 and 400 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 23. (Original) The treated textile article according to Claim 18, wherein said hydrophilic oxyalkylene derivative is between about 46 and 80 weight percent of said polyamide treatment agent where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 24. (Original) The treated textile article according to Claim 23, wherein said treated textile article has a Normalized Average Moisture Transport Durability (inch/inch) value of between about 0.3 and 1 when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 25. (Original) The treated textile article according to Claim 23, wherein said treated textile article has a ratio of (an Average Moisture Transport With Treatment and After Five Launderings)/(an Average Moisture Transport With Treatment and No Launderings) of between about 30 and 100 percent when wicking is measured according to the T-PACC vertical strip

wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.

- 26. (Original) The treated textile article according to Claim 23, wherein said treated textile article has a ratio of (Average Moisture Transport With Treatment and No Launderings)/ (Average Moisture Transport With No Treatment and No Launderings) of between about 200 and 400 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 27. (Original) The treated textile article according to Claim 18, wherein said hydrophilic oxyalkylene derivative is between about 56 and 78 weight percent of said polyamide treatment agent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 28. (Original) The treated textile article according to Claim 27, wherein said treated textile article has a Normalized Average Moisture Transport Durability (inch/inch) value of between about 0.6 and 1 when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 29. (Original) The treated textile article according to Claim 27, wherein said treated textile article has a ratio of (an Average Moisture Transport With Treatment and After Five Launderings)/(an Average Moisture Transport With Treatment and No Launderings) of between about 30 and 80 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.

- 30. (Original) The treated textile article according to Claim 27, wherein said treated textile article has a ratio of (Average Moisture Transport With Treatment and No Launderings)/ (Average Moisture Transport With No Treatment and No Launderings) of between about 250 and 400 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 31. (Original) The polyamide treatment agent according to claim 17 wherein said effective amount of any of an oxyalkylene derivative, an ether linkage, and an oxyalkylene derivative and an ether linkage is an effective amount of an oxyethylene derivative when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 32. (Original) The treated textile article according to Claim 31, wherein said oxyethylene derivative is between about 40 and 80 weight percent of said polyamide treatment agent.
- 33. (Original) The treated textile article according to Claim 32, wherein said treated textile article has a Normalized Average Moisture Transport Durability (inch/inch) value of between about 0.1 and 1 when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 34. (Original) The treated textile article according to Claim 32, wherein said treated textile article has a ratio of (an Average Moisture Transport With Treatment and After Five Launderings)/(an Average Moisture Transport With Treatment and No Launderings) of between about 30 and 120 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.

- 35. (Original) The treated textile article according to Claim 32, wherein said treated textile article has a ratio of (Average Moisture Transport With Treatment and No Launderings)/ (Average Moisture Transport With No Treatment and No Launderings) of between about 100 and 400 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 36. (Original) The treated textile article according to Claim 31, wherein said oxyethylene derivative is between about 46 and 80 weight percent of said polyamide treatment agent.
- 37. (Original) The treated textile article according to Claim 36, wherein said treated textile article has a Normalized Average Moisture Transport Durability (inch/inch) value of between about 0.3 and 1 when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 38. (Original) The treated textile article according to Claim 36, wherein said treated textile article has a ratio of (an Average Moisture Transport With Treatment and After Five Launderings)/(an Average Moisture Transport With Treatment and No Launderings) of between about 30 and 100 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 39. (Original) The treated textile article according to Claim 36, wherein said treated textile article has a ratio of (Average Moisture Transport With Treatment and No Launderings)/ (Average Moisture Transport With No Treatment and No Launderings) of between about 200 and 400 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.

- 40. (Original) The treated textile article according to Claim 31, wherein said oxyethylene derivative is between about 56 and 78 weight percent of said polyamide treatment agent.
- 41. (Original) The treated textile article according to Claim 40, wherein said treated textile article has a Normalized Average Moisture Transport Durability (inch/inch) value of between about .6 and 1 when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 42. (Original) The treated textile article according to Claim 40, wherein said treated textile article has a ratio of (an Average Moisture Transport With Treatment and After Five Launderings)/(an Average Moisture Transport With Treatment and No Launderings) of between about 30 and 80 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 43. (Original) The treated textile article according to Claim 40, wherein said treated textile article has a ratio of (Average Moisture Transport With Treatment and No Launderings)/ (Average Moisture Transport With No Treatment and No Launderings) of between about 250 and 400 percent when wicking is measured according to the T-PACC vertical strip wicking test where the water transported along the strip is measured at 1 minute intervals for 5 minutes with the value at 5 minutes being reported in inches.
- 44. (Original) The polyamide treatment agent according to Claim 17, wherein said hydrophilic component is a reaction product of a diacid and a diamine including an effective amount of any of an oxyalkylene derivative, an ether linkage, and an oxyalkylene derivative and an ether linkage.
- 45. (Original) The polyamide treatment agent according to Claim 44 wherein said effective amount of any of an oxyalkylene derivative, an ether linkage, and an oxyalkylene

derivative and an ether linkage includes an effective amount of an hydrophilic oxyalkylene derivative.

- 46. (Original) The polyamide treatment agent according to Claim 44, wherein said effective amount of any of an oxyalkylene derivative, an ether linkage, and an oxyalkylene derivative and an ether linkage is an effective amount of an oxyethylene derivative.
- 47. (Original) The polyamide treatment agent according to Claim 17, wherein the hydrophobic component is a reaction product of a diacid and a diamine.
- 48. (Original) The polyamide treatment agent according to Claim 17, wherein the polyamide treatment agent is a reaction product further including heating a mixture of any of said hydrophilic component and said hydrophobic component; a precursor of said hydrophobic component and a precursor of said hydrophobic component; and a precursor of said hydrophobic component and a precursor of said hydrophobic component.
- 49. (Original) The polyamide treatment agent according to Claim 17, wherein the polyamide treatment agent is a reaction product of a reaction product of diacid and diamine and a reaction product of a diacid and a diamine including an effective amount of any of an oxyalkylene derivative, ether linkage, and oxyalkylene derivative and ether linkage.
- 50. (Original) The polyamide treatment agent according to Claim 49 wherein said effective amount of any of an oxyalkylene derivative, an ether linkage, and an oxyalkylene derivative and an ether linkage includes an effective amount of an hydrophilic oxyalkylene derivative.
- 51. (Original) The polyamide treatment agent according to Claim 49 wherein said effective amount of any of an oxyalkylene derivative, an ether linkage, and an oxyalkylene derivative and an ether linkage is an effective amount of an oxyethylene derivative.

52. (Original) The polyamide treatment agent according to Claim 17 wherein said hydrophobic component includes a unit based on at least one of the following:

wherein

R<sub>1</sub> is an alkylene group with 3 to 11 carbon atoms that are any one of unsubstituted and substituted;

and

Structure II

wherein:

R<sub>2</sub> is any one of an alkylene group, a cycloalkylene group and a difunctional aromatic group with the alkylene group and the cycloalkylene of R<sub>2</sub> being 4 to 10 carbon atoms that are any one of unsubstituted and substituted; and

R<sub>3</sub> is any one of an alkylene group, cycloalkylene group and difunctional aromatic group with the alkylene group and the cycloalkylene of R<sub>3</sub> being 2 to 10 carbon atoms that are any one of unsubstituted and substituted.

- 53. (Original) The polyamide treatment agent according to Claim 52 wherein said hydrophobic component includes units based on structure I and units based on structure II.
- 54. (Original) The polyamide treatment agent according to Claim 53 wherein said polyamide treatment agent is on a molar percent basis between about 19 and 95 based on at least one of structure I, structure II, and structure I and structure II.

55. (Original) The polyamide treatment agent according to Claim 17 wherein said hydrophilic component includes a unit based on the following:

## Wherein:

R<sub>4</sub> may be any one of hydrogen and an alkyl of one to four carbon atoms;

 $R_5$  may be any one of hydrogen and an alkyl of one to four carbon atoms;

R<sub>6</sub> may be any one of hydrogen and an alkyl of one to four carbon atoms;

R<sub>7</sub> may be any one of hydrogen and an alkyl of one to four carbon atoms;

a is from 0 to 3;

b is from 1 to 78; and

c is from 0 to 3.

56. (Original) The polyamide treatment agent according to claim 52 wherein said hydrophilic component includes a unit based on the following:

Structure III

## Wherein:

R<sub>4</sub> may be any one of hydrogen and an alkyl of one to four carbon atoms;

R<sub>5</sub> may be any one of hydrogen and an alkyl of one to four carbon atoms;

R<sub>6</sub> may be any one of hydrogen and an alkyl of one to four carbon atoms;

R<sub>7</sub> may be any one of hydrogen and an alkyl of one to four carbon atoms;

a is from 0 to 3;

b is from 1 to 78;

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c is from 0 to 3; and

said unit based on structure III is adjacent to any one of a unit based on diacid; a unit based on structure I, a unit based on structure II and another unit based on structure III.

57. (Original) The polyamide treatment agent according to Claim 56 wherein said diacid that is unit based on the following:

wherein

R<sub>8</sub> is any one of an alkylene group, cycloalkylene group, and a difunctional aromatic group with the alkylene group and the cycloalkylene of R<sub>8</sub> being 4 to 10 carbon atoms that are any one of unsubstituted and substitute.

- 58. (Original) The polyamide treatment agent according to Claim 54 further including the reaction product of a platicizer.
- 59. (Original) The polyamide treatment agent according to Claim 58 wherein said reaction product of a platicizer is derived from any one of a polyether glycol diamine having a molecular weight less than about 500 and a number of consecutive oxyethylene derivative units are less than about 4; a polyether glycol diamine having a molecular weight greater than about 500 and any one of a ratio of (oxyethylene derivative)/(oxypropylene derivative) less than about 4/6, a ratio of (oxyethylene derivative)/(oxybutylene derivative) less than about 4/6, and a sum of a ratio of (oxyethylene derivative)/(oxypropylene derivative) and a ratio of (oxyethylene derivative)/(oxybutylene derivative) less than about 4/6.

60. (Original) The polyamide treatment agent according to Claim 56 further including the reaction product of a platicizer.

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- 61. (Original) The polyamide treatment agent according to Claim 60 wherein said reaction product of a platicizer is derived from any one of a polyether glycol diamine having a molecular weight less than about 500 and a number of consecutive oxyethylene derivative units are less than about 4; a polyether glycol diamines having a molecular weight greater than about 500 and any one of a ratio of (oxyethylene derivative)/(oxypropylene derivative) less than about 4/6, a ratio of (oxyethylene derivative)/(oxybutylene derivative) less than about 4/6, and a sum of a ratio of (oxyethylene derivative)/(oxypropylene derivative) and a ratio of (oxyethylene derivative) less than about 4/6.
- 62. (Original) The polyamide treatment agent according to Claim 17 further including a chain terminating group so as to effect at least one of controlling the molecular weight of said polyamide treatment agent, changing the solubility of said polyamide treatment agent in water, and increasing a substantivity of a textile article treated with said polyamide treatment agent.
- 63. (Original) The polyamide treatment agent according to Claim 62 wherein said chain terminating group is (R<sub>9</sub>)<sub>d</sub>-F, wherein R<sub>9</sub> is any one of a C<sub>1</sub>-C<sub>24</sub> alkyl, C<sub>1</sub>-C<sub>24</sub> aryl, C<sub>1</sub>-C<sub>24</sub> alkylaryl, C<sub>1</sub>-C<sub>24</sub> alkenyl, and an oxyalkylene derivative; d is 1-2; and F is any one of NH<sub>2</sub>, NH, CHO, COCl, and COOR<sub>13</sub>, wherein R<sub>13</sub> is any of a C<sub>1</sub>-C<sub>2</sub> alkyl and hydrogen
- 64. (Original) The polyamide treatment agent according to Claim 63 wherein said oxyalkylene derivative is  $R_{10}$ (O-CHR<sub>11</sub>-CHR<sub>12</sub>)<sub>p</sub>-, wherein  $R_{10}$  is any of a  $C_1$ - $C_4$  alkyl;  $R_{11}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_{12}$  is any of a  $C_1$ - $C_4$  alkyl and hydrogen;  $R_1$ - $R_1$ -
- 65. (Original) The polyamide treatment agent according to Claim 17 further including a branching facilitator so as to induce branching of said polyamide treatment agent.

- 66. (Original) The polyamide treatment agent according to Claim 65 wherein said branching facilitator is any one of a polyamine and a polyacid.
- 67. (Original) The polyamide treatment agent according to Claim 66 wherein said polyamine is any one of diethylene triamine, triethylene tetraamine, tetraethylene pentamine, poly(oxy(methyl-1,2-ethanediyl), alpha-omega-(2-aminomethylethoxy-, and ether with 2-ethyl-2-(hydroxymethyl)-1,3 propanediol (3:1).
- 68. (Original) The polyamide treatment agent according to Claim 66 wherein said polyacid is any one of trimellitic anhydride and citric.
- 69. (Original) The polyamide treatment agent according to Claim 65 wherein said branching facilitator is between about 1% and 3% by weight of said polyamide treatment agent.